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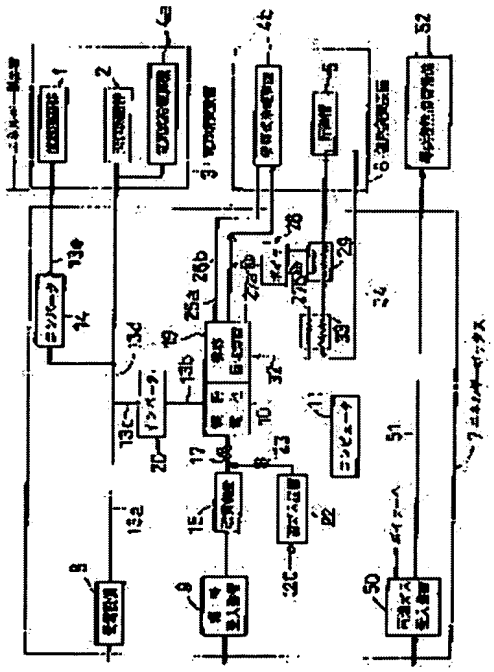
(54) ENERGY SUPPLY SYSTEM

(57)Abstract:
PURPOSE: To provide an energy supply system capable of effectively using an energy from a view point of energy consumers and a national point of view.
CONSTITUTION: In art energy supply system in which a heat generation generated by a fuel cell 10 is supplied to heat, generation consumption equipment 6 while a power received in receiving equipment 8 from a power station and a power generated by the fuel cell 10 are interconnected and are supplied to power consumption equipment 3, an operating amount, of the fuel cell 10 is calculated by operating amount calculation means so as to minimize an expression $y=a\times L+b\times M+c\times N$ to an energy demand required in the power consumption equipment 3 and the heat, generation consumption equipment 6 or the like. Then, the fuel cell 10 is controlled by control means so as to satisfy the operating amount, and an energy is supplied so as to attain the optimum conditions in a cost to be charged for consumption and environmental pollution substance discharge respectively.



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Symbol N, i.e., environmental contaminants are exemplified by CO_2, NO_x and SO_x. Assuming that W_1, W_2, and W_3 are weighting factors, the environmental contaminants can be evaluated by: $N = W_1(CO_2) + W_2(NO_x) + W_3(SO_x)$. In particular, when attention is focused on only CO_2, $W_1 = 1$, $W_2 = 0$, $W_3 = 0$; when focused on only NO_x, $W_1 = 0$, $W_2 = 1$, $W_3 = 0$; and when focused on only SO_x, $W_1 = 0$, $W_2 = 0$, $W_3 = 1$. An environmental contaminant targeted for evaluation can arbitrarily be determined depending on conditions.